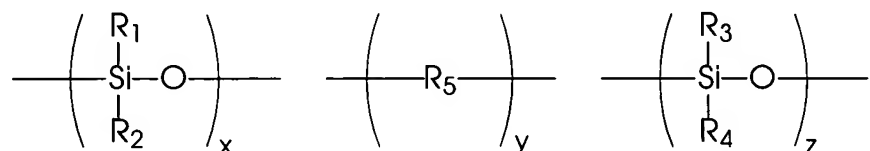


1. A block of intermediate transfer material for use in a printing apparatus having (a) an intermediate transfer member; (b) an intermediate transfer material applicator for transferring intermediate transfer material from a solid block of intermediate transfer material to form a molten layer of intermediate transfer material on the intermediate transfer member; (c) a marking material applicator situated to apply marking material in an imagewise pattern to the molten layer of intermediate transfer material on the intermediate transfer member; and (d) a transferring apparatus to transfer the imagewise pattern of marking material to a final recording substrate, said block of intermediate transfer material comprising a silicone polymer containing monomers of the formula



wherein R₁ and R₂ each, independently of the other, are hydrogen atoms, hydroxy groups, alkyl groups, aryl groups, arylalkyl groups, or alkylaryl groups, provided that at least one of R₁ and R₂ has at least about 12 carbon atoms, wherein R₁+R₂ have a total number of carbon atoms of no more than about 100, R₃ and R₄ each, independently of the other, are hydrogen atoms, hydroxy groups, alkyl groups, aryl groups, arylalkyl groups, or alkylaryl groups, wherein R₃+R₄ have a total number of carbon atoms of no more than about 20, R₅ is an alkylene group, an arylene group, an arylalkylene group, an alkylarylene group, and x, y, and z each, independently of the others, are integers representing the number of repeat monomer units, wherein either (a) x is at least about 1 and wherein y and z each may be 0 but may also be

greater than 0, provided that at least 2 monomer units are present in the silicone polymer, or (b) x may be 0 but may also be greater than 0, y is at least 1, and z is at least 1, wherein the monomers can be either directly bonded to each other or bonded to each other through spacer groups, said block of intermediate transfer material having a surface with a second shape, wherein the second shape is substantially the complement of the first shape.

2. A block according to claim 1 wherein the second shape is an arc.

3. A block according to claim 1 wherein at least one of R_1 and R_2 has at least about 28 carbon atoms.

4. A block according to claim 1 wherein at least one of R_1 and R_2 has from about 12 carbon atoms to about 28 carbon atoms.

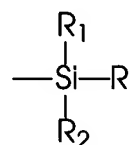
5. A block according to claim 1 wherein the total number of carbon atoms in R_3+R_4 is no more than about 10.

6. A block according to claim 1 wherein the total number of carbon atoms in R_3+R_4 is no more than about 2.

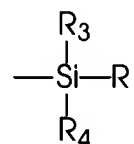
7. A block according to claim 1 wherein R_1 and R_2 each, independently of the other, are hydrogen atoms, hydroxy groups, unsubstituted alkyl groups, substituted alkyl groups, unsubstituted aryl groups, substituted aryl groups, unsubstituted arylalkyl groups, substituted arylalkyl groups, unsubstituted alkylaryl groups, or substituted alkylaryl groups, R_3 and R_4 each, independently of the other, are hydrogen atoms, hydroxy groups, unsubstituted alkyl groups, substituted alkyl groups, unsubstituted aryl groups, substituted aryl groups, unsubstituted arylalkyl groups, substituted arylalkyl groups, unsubstituted alkylaryl groups, or substituted alkylaryl groups, and R_5 is an unsubstituted alkylene group, a substituted alkylene group, an unsubstituted arylene group, a substituted arylene group, an unsubstituted arylalkylene group, a substituted arylalkylene group, an unsubstituted alkylarylene group, or a substituted alkylarylene group.

8. A block according to claim 1 wherein R_1 and R_2 each, independently of the other, are hydrogen atoms, hydroxy groups, alkyl groups having no hetero atoms therein, alkyl groups having heteroatoms therein, aryl groups having no hetero atoms therein, aryl groups having hetero atoms therein, arylalkyl groups having no hetero atoms therein, arylalkyl groups having hetero atoms therein, alkylaryl groups having no hetero atoms therein, or alkylaryl groups having hetero atoms therein, R_3 and R_4 each, independently of the other, are hydrogen atoms, hydroxy groups, alkyl groups having no hetero atoms therein, alkyl groups having hetero atoms therein, aryl groups having no hetero atoms therein, aryl groups having hetero atoms therein, arylalkyl groups having no hetero atoms therein, arylalkyl groups having hetero atoms therein, alkylaryl groups having no hetero atoms therein, or alkylaryl groups having hetero atoms therein, and R_5 is an alkylene group having no hetero atoms therein, an alkylene group having hetero atoms therein, an arylene group having no hetero atoms therein, an arylene group having hetero atoms therein, an arylalkylene group having no hetero atoms therein, an arylalkylene group having hetero atoms therein, an alkylarylene group having no hetero atoms therein, or an alkylarylene group having hetero atoms therein.

9. A block according to claim 1 wherein the silicone polymer has terminal groups selected from the group consisting of (a) -H, (b) -OH, (c) -OC_nH_{2n+1} wherein n is an integer of from 1 to about 20, (d) -C_nH_{2n+1} wherein n is an integer of from 1 to about 20, (e) -C_nH_{2n+1}OH wherein n is an integer of from 1 to about 20, (f) -C_nH_{2n+1}NH₂ wherein n is an integer of from 1 to about 20, (g)



groups wherein R is (I) -C_nH_{2n+1} wherein n is an integer of from 1 to about 20, (II) -C_nH_{2n+1}OH wherein n is an integer of from 1 to about 20, or (III) C_nH_{2n+1}NH₂ wherein n is an integer of from 1 to about 20, (h)

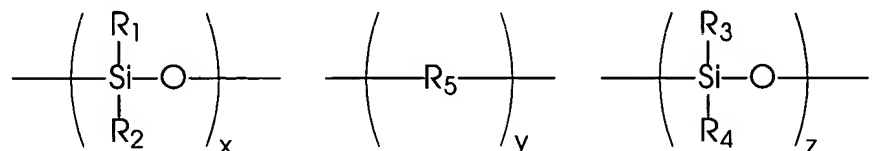


groups wherein R is (I) -C_nH_{2n+1} wherein n is an integer of from 1 to about 20, (II) -C_nH_{2n+1}OH wherein n is an integer of from 1 to about 20, or (III) -C_nH_{2n+1}NH₂ wherein n is an integer of from 1 to about 20, and (i) mixtures thereof.

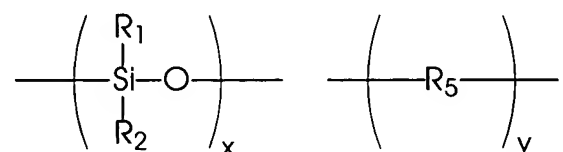
10. A block according to claim 1 wherein x is at least about 1 and wherein y and z each may be 0 but may also be greater than 0, provided that at least 2 monomer units are present in the silicone polymer.

11. A block according to claim 1 wherein x may be 0 but may also be greater than 0, y is at least 1, and z is at least 1.

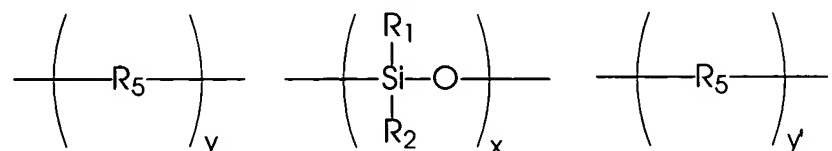
12. A block according to claim 1 wherein the polymer is selected from the group consisting of (a) block, random, and alternating copolymers containing monomers of the formula



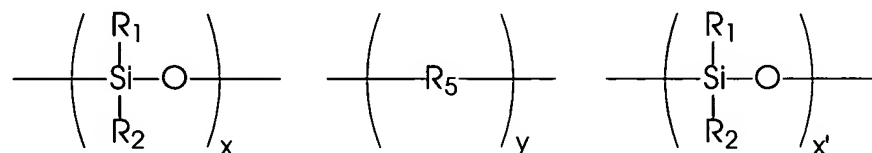
wherein the monomers can appear in any order and wherein x is at least 1 and y and z are each at least 1; (b) block, alternating, and random copolymers containing monomers of the formula



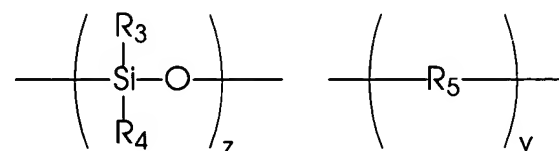
wherein x is at least 1 and y is at least 1; (c) block copolymers containing monomers of the formula



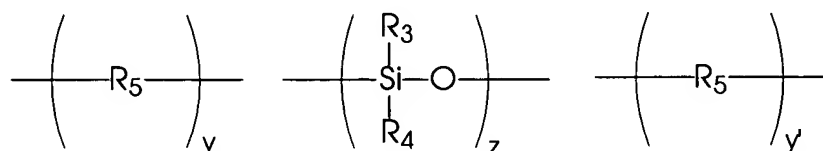
wherein the monomers are in blocks in the order shown and wherein x is at least 1 and y and y' are each at least 1; (d) block copolymers containing monomers of the formula



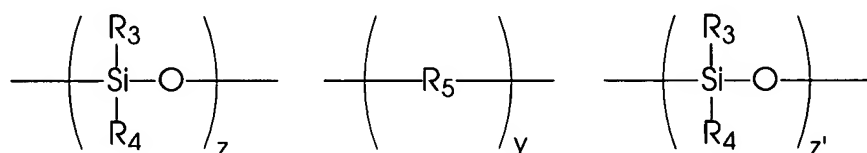
wherein the monomers are in blocks in the order shown and wherein x and x' are each at least 1 and y is at least 1; (e) block, alternating, and random copolymers containing monomers of the formula



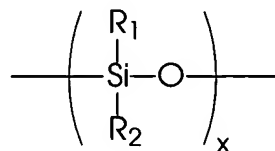
wherein y and z are each at least 1; (f) block copolymers containing monomers of the formula



wherein the monomers are in blocks in the order shown and wherein z, y, and y' are each at least 1; (g) block copolymers containing monomers of the formula



wherein the monomers are in blocks in the order shown and wherein z, z', and y are each at least 1; (h) homopolymers containing monomers of the formula



wherein x is at least 2; and (i) mixtures thereof.

13. A block according to claim 1 wherein at least some of the monomers are bonded to each other through spacer groups.

14. A block according to claim 13 wherein at least some of the spacer groups are of the formula



wherein R_7 is an alkylene group, an arylene group, an arylalkylene group, or an alkylarylene group.

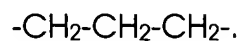
15. A block according to claim 14 wherein R_7 is an unsubstituted alkylene group, an unsubstituted arylene group, an unsubstituted arylalkylene group, or an unsubstituted alkylarylene group.

16. A block according to claim 14 wherein R_7 is a substituted alkylene group, a substituted arylene group, a substituted arylalkylene group, or a substituted alkylarylene group.

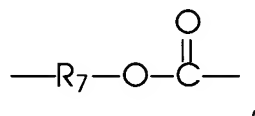
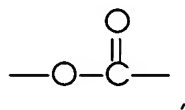
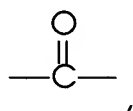
17. A block according to claim 14 wherein R_7 is an alkylene group having no hetero atoms therein, an arylene group having no hetero atoms therein, an arylalkylene group having no hetero atoms therein, or an alkylarylene group having no hetero atoms therein.

18. A block according to claim 14 wherein R_7 is an alkylene group having hetero atoms therein, an arylene group having hetero atoms therein, an arylalkylene group having heteroatoms therein, or an alkylarylene group having hetero atoms therein.

19. A block according to claim 13 wherein at least some of the spacer groups are of the formula

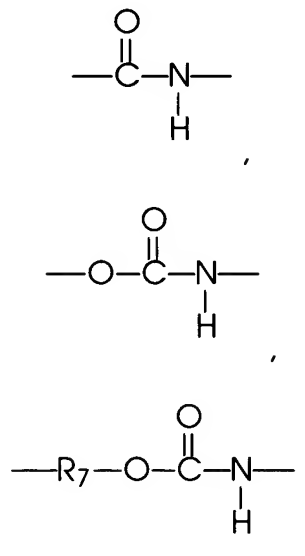


20. A block according to claim 13 wherein at least some of the spacer groups are of the formulae



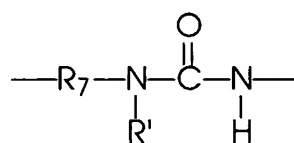
or mixtures thereof, wherein R_7 is an alkylene group, an arylene group, an arylalkylene group, or an alkylarylene group.

21. A block according to claim 13 wherein at least some of the spacer groups are of the formulae



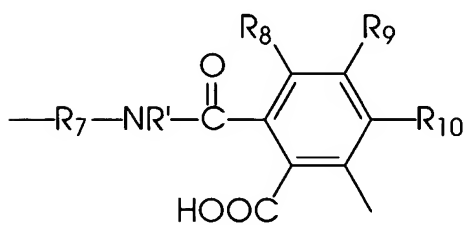
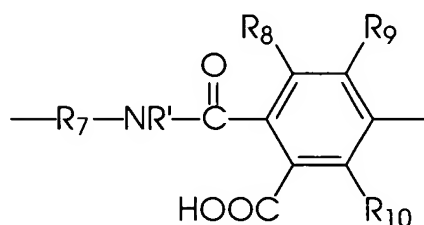
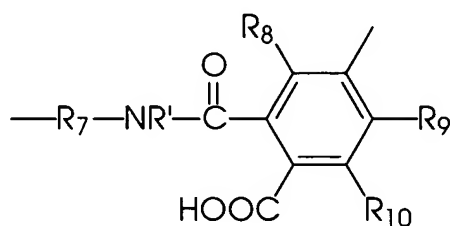
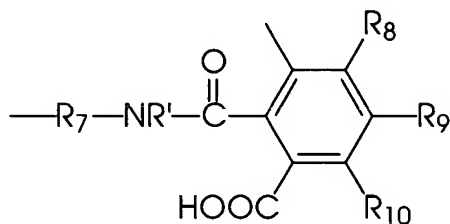
or mixtures thereof, wherein R_7 is an alkylene group, an arylene group, an arylalkylene group, or an alkylarylene group.

22. A block according to claim 13 wherein at least some of the spacer groups are of the formula



wherein R_7 is an alkylene group, an arylene group, an arylalkylene group, or an alkylarylene group and wherein R' is an alkyl group, an aryl group, an arylalkyl group, or an alkylaryl group.

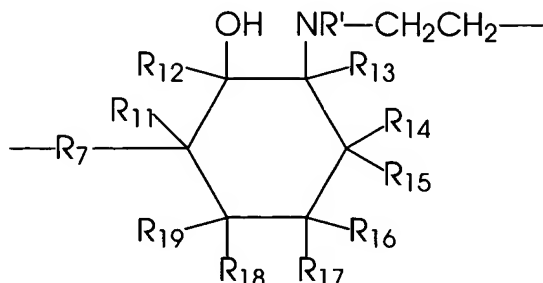
23. A block according to claim 13 wherein at least some of the spacer groups are of the formulae



or mixtures thereof, wherein R_7 is an alkylene group, an arylene group, an arylalkylene group, or an alkylarylene group, R' is an alkyl group, an aryl group, an arylalkyl group, or an alkylaryl group, and R_8 , R_9 , and R_{10} each, independently of the others, are hydrogen atoms, hydroxy groups, halogen atoms, amine groups, imine groups, ammonium groups, azo groups, cyano groups, pyridine groups, pyridinium groups, ether groups, aldehyde groups, ketone groups, carboxylic acid groups,

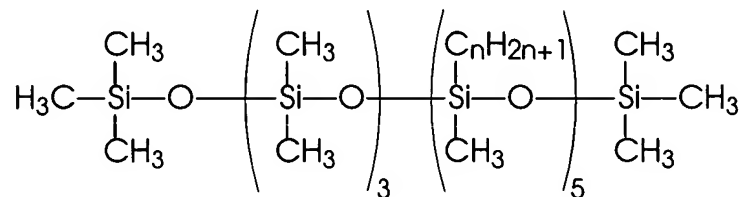
ester groups, amide groups, carbonyl groups, thiocarbonyl groups, sulfate groups, sulfonate groups, sulfide groups, sulfoxide groups, phosphine groups, phosphonium groups, phosphate groups, nitrile groups, mercapto groups, nitro groups, sulfone groups, acyl groups, acid anhydride groups, cyanato groups, isocyanato groups, thiocyanato groups, isothiocyanato groups, oxiran groups, alkyl groups, aryl groups, arylalkyl groups, or alkylaryl groups.

24. A block according to claim 13 wherein at least some of the spacer groups are of the formula

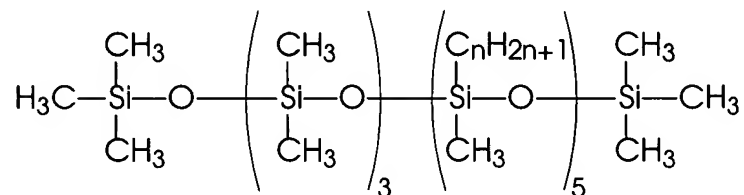


wherein R₇ is an alkylene group, an arylene group, an arylalkylene group, or an alkylarylene group, R' is an alkyl group, an aryl group, an arylalkyl group, or an alkylaryl group, and R₁₁, R₁₂, R₁₃, R₁₄, R₁₅, R₁₆, R₁₇, R₁₈, and R₁₉ each, independently of the others, are hydrogen atoms, hydroxy groups, halogen atoms, amine groups, imine groups, ammonium groups, azo groups, cyano groups, pyridine groups, pyridinium groups, ether groups, aldehyde groups, ketone groups, carboxylic acid groups, ester groups, amide groups, carbonyl groups, thiocarbonyl groups, sulfate groups, sulfonate groups, sulfide groups, sulfoxide groups, phosphine groups, phosphonium groups, phosphate groups, nitrile groups, mercapto groups, nitro groups, sulfone groups, acyl groups, acid anhydride groups, cyanato groups, isocyanato groups, thiocyanato groups, isothiocyanato groups, oxiran groups, alkyl groups, aryl groups, arylalkyl groups, or alkylaryl groups.

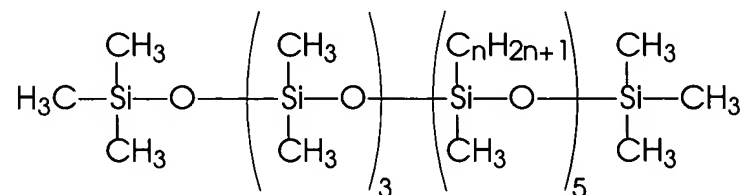
25. A block according to claim 1 wherein the silicone polymer is selected from the group consisting of (a) those of the formula



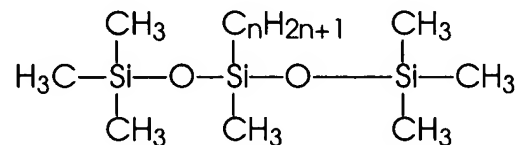
wherein n is from about 20 to about 24, (b) those of the formula



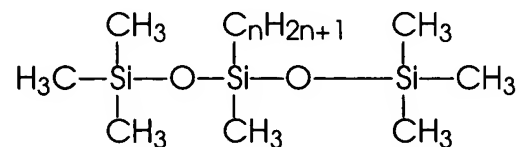
wherein n is from about 24 to about 28, (c) those of the formula



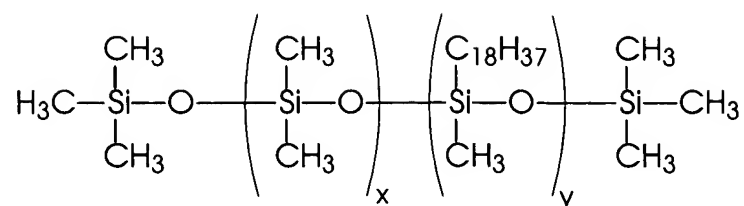
wherein n is 18, (d) those of the formula



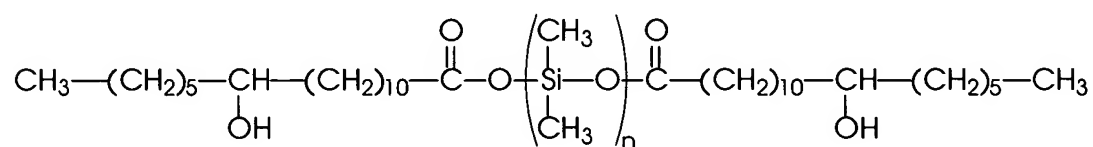
wherein n is from about 20 to about 24, (e) those of the formula



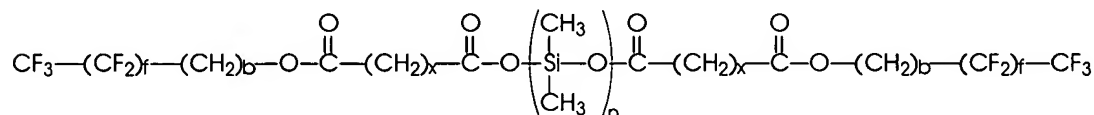
wherein n is from about 24 to about 28, (f) those of the formula



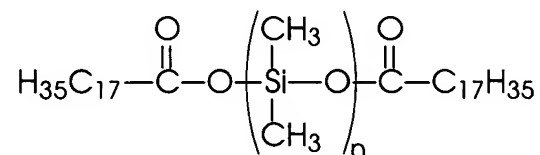
wherein x represents the number of polydimethylsiloxane repeat units and y represents the number of poly(methyl stearyl)siloxane repeat units, (g) those of the formula



wherein n is an integer of from 1 to about 50, (h) those of the formula



wherein n is an integer of from 1 to about 50, b is an integer representing the number of repeat $-\text{CH}_2-$ units, and f is an integer representing the number of repeat $-\text{CF}_2-$ units, (i) those of the formula



wherein n is an integer of from 1 to about 50, and (j) mixtures thereof.

26. A block according to claim 1 wherein the silicone polymer has a number average molecular weight of at least about 400.

27. A block according to claim 1 wherein the silicone polymer has a number average molecular weight of at least about 800.

28. A block according to claim 1 wherein the silicone polymer has a number average molecular weight of at least about 1,000.

29. A block according to claim 1 wherein the silicone polymer has a number average molecular weight of no more than about 40,000.

30. A block according to claim 1 wherein the silicone polymer has a number average molecular weight of no more than about 25,000.

31. A block according to claim 1 wherein the silicone polymer has a number average molecular weight of no more than about 8,000.

32. A block according to claim 1 wherein the intermediate transfer material has a melting point of at least about 30°C.

33. A block according to claim 1 wherein the intermediate transfer material has a melting point of at least about 35°C.

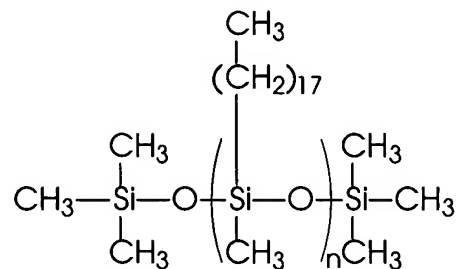
34. A block according to claim 1 wherein the intermediate transfer material has a melting point of at least about 40°C.

35. A block according to claim 1 wherein the intermediate transfer material has a melting point of no more than about 90°C.

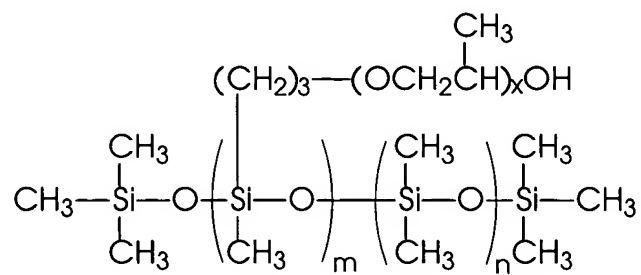
36. A block according to claim 1 wherein the intermediate transfer material has a melting point of no more than about 55°C.

37. A block according to claim 1 wherein the intermediate transfer material has a melting point of no more than about 45°C.

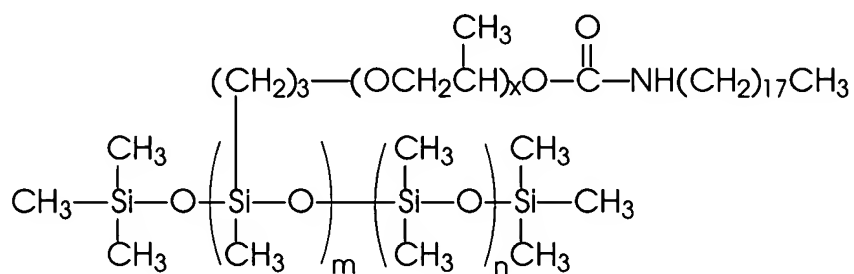
38. A block according to claim 1 wherein the silicone polymer is selected from the group consisting of (a) those of the formula



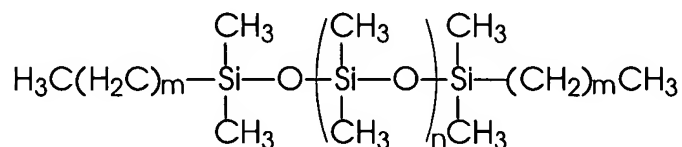
wherein $n = 22-30$; (b) those of the formula



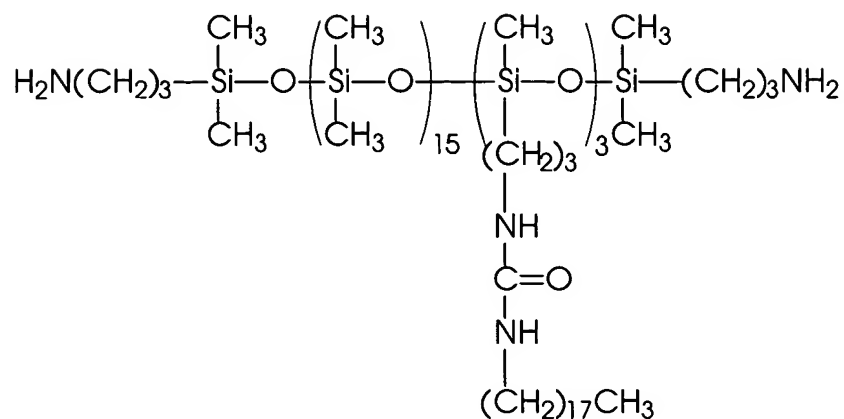
wherein $m = 7-9$, $n = 17-19$, and x has an average value of from about 1.4 to about 1.8; (c) those of the formula



wherein $m = 7-9$, $n = 17-19$, and x has an average value of from about 1.4 to about 1.8; (d) those of the formula

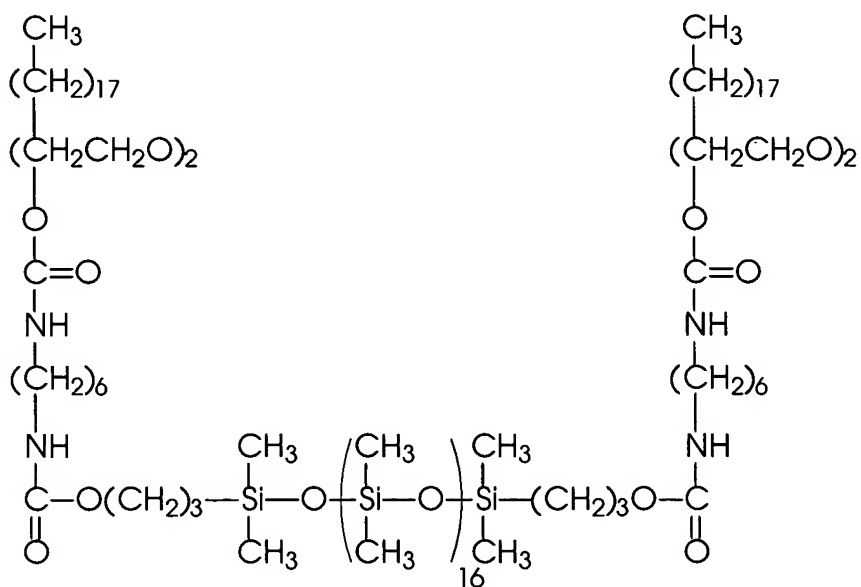


wherein m is from about 17 to about 21 and n = 3-5; (e) those of the formula



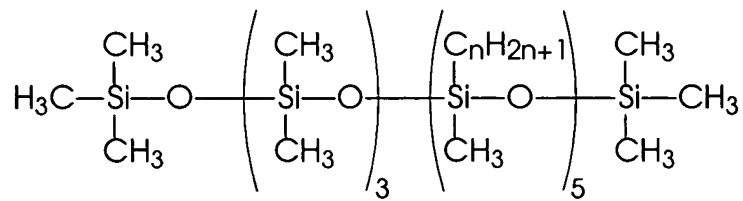
;

(f) those of the formula



;

(g) those of the formula



wherein n is from about 24 to about 28; and (h) mixtures thereof.

39. A block according to claim 1 wherein the intermediate transfer material further comprises at least one reactive material that can be crosslinked by application of ultraviolet radiation, infrared radiation, light in the visible wavelength range, e-beam radiation, X-ray radiation, heat, moisture, additional reactants, or combinations thereof.

40. A block according to claim 39 wherein the reactive material is present in the intermediate transfer material in an amount of at least about 0.1 percent by weight of the intermediate transfer material.

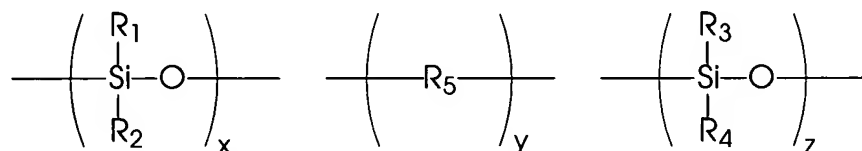
41. A block according to claim 1 wherein the intermediate transfer material further comprises small particles.

42. A block according to claim 41 wherein the small particles are present in the intermediate transfer material in an amount of at least about 0.1 percent by weight.

43. A block according to claim 41 wherein the small particles have an average particle diameter of at least about 0.1 micron.

44. A block according to claim 41 wherein the small particles have an average particle diameter of no more than about 80 microns.

45. A printing process which comprises (a) supplying an intermediate transfer material, said intermediate transfer material having a melting point of at least about 30°C, said intermediate transfer material having a melting point of no more than about 90°C; (b) applying a molten layer of said intermediate transfer material to an intermediate transfer member; (c) applying to the layer of intermediate transfer material a marking material in an imagewise pattern, thereby forming an image on the layer of molten intermediate transfer material; and (d) transferring the marking material from the intermediate transfer member to a final recording substrate, said intermediate transfer material comprising a silicone polymer containing monomers of the formula



wherein R₁ and R₂ each, independently of the other, are hydrogen atoms, hydroxy groups, alkyl groups, aryl groups, arylalkyl groups, or alkylaryl groups, provided that at least one of R₁ and R₂ has at least about 12 carbon atoms, wherein R₁+R₂ have a total number of carbon atoms of no more than about 100, R₃ and R₄ each, independently of the other, are hydrogen atoms, hydroxy groups, alkyl groups, aryl groups, arylalkyl groups, or alkylaryl groups, wherein R₃+R₄ have a total number of carbon atoms of no more than about 20, R₅ is an alkylene group, an arylene group, an arylalkylene group, an alkylarylene group, and x, y, and z each, independently of the others, are integers representing the number of repeat monomer units, wherein either (a) x is at least about 1 and wherein y and z each may be 0 but may also be

greater than 0, provided that at least 2 monomer units are present in the silicone polymer, or (b) x may be 0 but may also be greater than 0, y is at least 1, and z is at least 1, wherein the monomers can be either directly bonded to each other or bonded to each other through spacer groups.

46. A process according to claim 45 wherein at least one of R_1 and R_2 has at least about 28 carbon atoms.

47. A process according to claim 45 wherein at least one of R_1 and R_2 has from about 12 carbon atoms to about 28 carbon atoms.

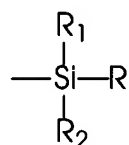
48. A process according to claim 45 wherein the total number of carbon atoms in R_3+R_4 is no more than about 10.

49. A process according to claim 45 wherein the total number of carbon atoms in R_3+R_4 is no more than about 2.

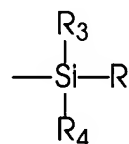
50. A process according to claim 45 wherein R_1 and R_2 each, independently of the other, are hydrogen atoms, hydroxy groups, unsubstituted alkyl groups, substituted alkyl groups, unsubstituted aryl groups, substituted aryl groups, unsubstituted arylalkyl groups, substituted arylalkyl groups, unsubstituted alkylaryl groups, or substituted alkylaryl groups, R_3 and R_4 each, independently of the other, are hydrogen atoms, hydroxy groups, unsubstituted alkyl groups, substituted alkyl groups, unsubstituted aryl groups, substituted aryl groups, unsubstituted arylalkyl groups, substituted arylalkyl groups, unsubstituted alkylaryl groups, or substituted alkylaryl groups, and R_5 is an unsubstituted alkylene group, a substituted alkylene group, an unsubstituted arylene group, a substituted arylene group, an unsubstituted arylalkylene group, a substituted arylalkylene group, an unsubstituted alkylarylene group, or a substituted alkylarylene group.

51. A process according to claim 45 wherein R_1 and R_2 each, independently of the other, are hydrogen atoms, hydroxy groups, alkyl groups having no hetero atoms therein, alkyl groups having heteroatoms therein, aryl groups having no hetero atoms therein, aryl groups having hetero atoms therein, arylalkyl groups having no hetero atoms therein, arylalkyl groups having hetero atoms therein, alkylaryl groups having no hetero atoms therein, or alkylaryl groups having hetero atoms therein, R_3 and R_4 each, independently of the other, are hydrogen atoms, hydroxy groups, alkyl groups having no hetero atoms therein, alkyl groups having hetero atoms therein, aryl groups having no hetero atoms therein, aryl groups having hetero atoms therein, arylalkyl groups having no hetero atoms therein, arylalkyl groups having hetero atoms therein, alkylaryl groups having no hetero atoms therein, or alkylaryl groups having hetero atoms therein, and R_5 is an alkylene group having no hetero atoms therein, an alkylene group having hetero atoms therein, an arylene group having no hetero atoms therein, an arylene group having hetero atoms therein, an arylalkylene group having no hetero atoms therein, an arylalkylene group having hetero atoms therein, an alkylarylene group having no hetero atoms therein, or an alkylarylene group having hetero atoms therein.

52. A process according to claim 45 wherein the silicone polymer has terminal groups selected from the group consisting of (a) -H, (b) -OH, (c) -OC_nH_{2n+1} wherein n is an integer of from 1 to about 20, (d) -C_nH_{2n+1} wherein n is an integer of from 1 to about 20, (e) -C_nH_{2n+1}OH wherein n is an integer of from 1 to about 20, (f) -C_nH_{2n+1}NH₂ wherein n is an integer of from 1 to about 20, (g)



groups wherein R is (I) -C_nH_{2n+1} wherein n is an integer of from 1 to about 20, (II) -C_nH_{2n+1}OH wherein n is an integer of from 1 to about 20, or (III) C_nH_{2n+1}NH₂ wherein n is an integer of from 1 to about 20, (h)

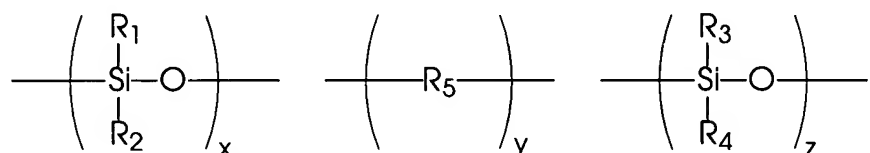


groups wherein R is (I) -C_nH_{2n+1} wherein n is an integer of from 1 to about 20, (II) -C_nH_{2n+1}OH wherein n is an integer of from 1 to about 20, or (III) -C_nH_{2n+1}NH₂ wherein n is an integer of from 1 to about 20, and (i) mixtures thereof.

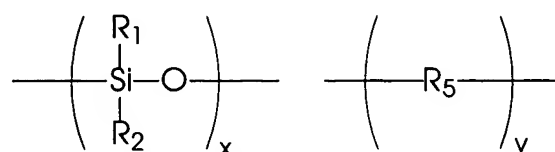
53. A process according to claim 45 wherein x is at least about 1 and wherein y and z each may be 0 but may also be greater than 0, provided that at least 2 monomer units are present in the silicone polymer.

54. A process according to claim 45 wherein x may be 0 but may also be greater than 0, y is at least 1, and z is at least 1.

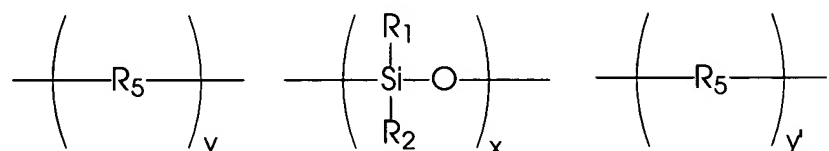
55. A process according to claim 45 wherein the polymer is selected from the group consisting of (a) block, random, and alternating copolymers containing monomers of the formula



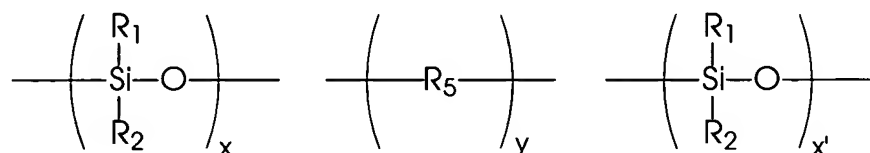
wherein the monomers can appear in any order and wherein x is at least 1 and y and z are each at least 1; (b) block, alternating, and random copolymers containing monomers of the formula



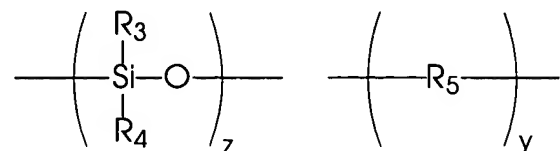
wherein x is at least 1 and y is at least 1; (c) block copolymers containing monomers of the formula



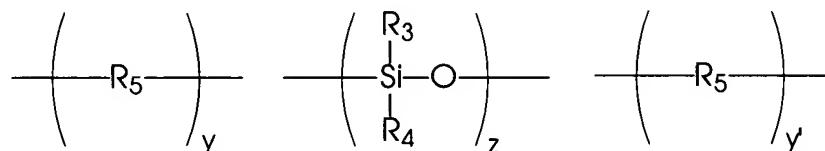
wherein the monomers are in blocks in the order shown and wherein x is at least 1 and y and y' are each at least 1; (d) block copolymers containing monomers of the formula



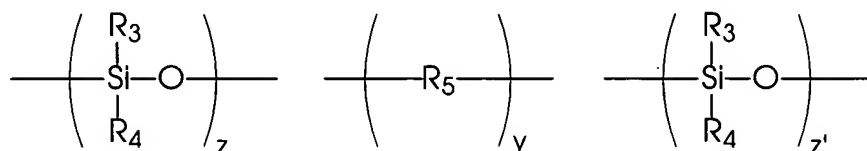
wherein the monomers are in blocks in the order shown and wherein x and x' are each at least 1 and y is at least 1; (e) block, alternating, and random copolymers containing monomers of the formula



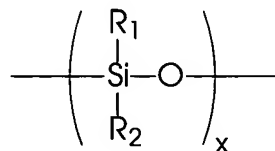
wherein y and z are each at least 1; (f) block copolymers containing monomers of the formula



wherein the monomers are in blocks in the order shown and wherein z, y, and y' are each at least 1; (g) block copolymers containing monomers of the formula



wherein the monomers are in blocks in the order shown and wherein z, z', and y are each at least 1; (h) homopolymers containing monomers of the formula



wherein x is at least 2; and (i) mixtures thereof.

56. A process according to claim 45 wherein at least some of the monomers are bonded to each other through spacer groups.

57. A process according to claim 56 wherein at least some of the spacer groups are of the formula



wherein R_7 is an alkylene group, an arylene group, an arylalkylene group, or an alkylarylene group.

58. A process according to claim 57 wherein R_7 is an unsubstituted alkylene group, an unsubstituted arylene group, an unsubstituted arylalkylene group, or an unsubstituted alkylarylene group.

59. A process according to claim 57 wherein R_7 is a substituted alkylene group, a substituted arylene group, a substituted arylalkylene group, or a substituted alkylarylene group.

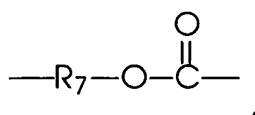
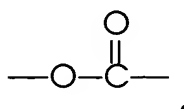
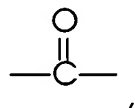
60. A process according to claim 57 wherein R_7 is an alkylene group having no hetero atoms therein, an arylene group having no hetero atoms therein, an arylalkylene group having no hetero atoms therein, or an alkylarylene group having no hetero atoms therein.

61. A process according to claim 57 wherein R_7 is an alkylene group having hetero atoms therein, an arylene group having hetero atoms therein, an arylalkylene group having heteroatoms therein, or an alkylarylene group having hetero atoms therein.

62. A process according to claim 56 wherein at least some of the spacer groups are of the formula

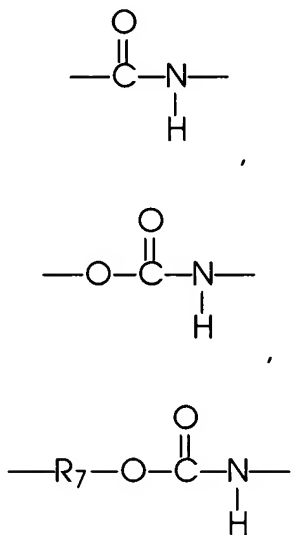


63. A process according to claim 56 wherein at least some of the spacer groups are of the formulae



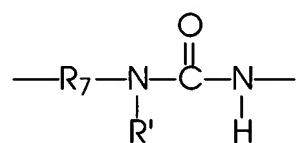
or mixtures thereof, wherein R_7 is an alkylene group, an arylene group, an arylalkylene group, or an alkylarylene group.

64. A process according to claim 56 wherein at least some of the spacer groups are of the formulae



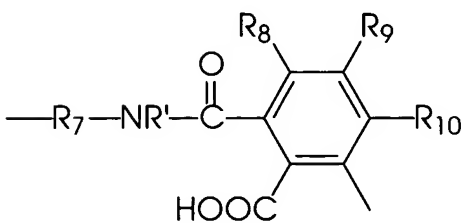
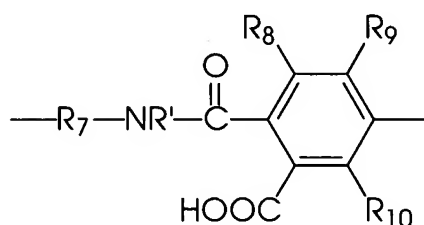
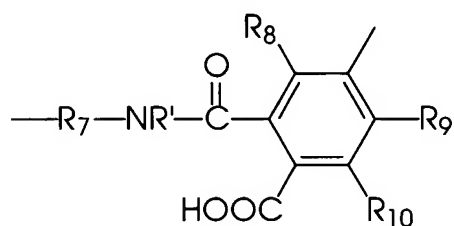
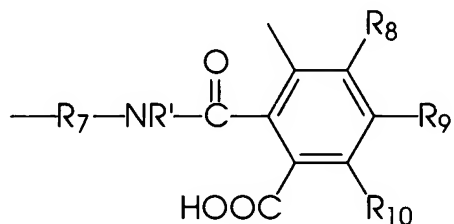
or mixtures thereof, wherein R_7 is an alkylene group, an arylene group, an arylalkylene group, or an alkylarylene group.

65. A process according to claim 56 wherein at least some of the spacer groups are of the formula



wherein R_7 is an alkylene group, an arylene group, an arylalkylene group, or an alkylarylene group and wherein R' is an alkyl group, an aryl group, an arylalkyl group, or an alkylaryl group.

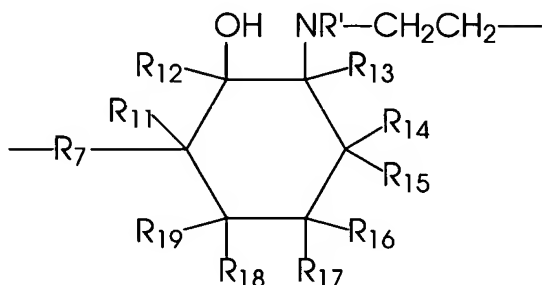
66. A process according to claim 56 wherein at least some of the spacer groups are of the formulae



or mixtures thereof, wherein R_7 is an alkylene group, an arylene group, an arylalkylene group, or an alkylarylene group, R' is an alkyl group, an aryl group, an arylalkyl group, or an alkylaryl group, and R_8 , R_9 , and R_{10} each, independently of the others, are hydrogen atoms, hydroxy groups, halogen atoms, amine groups, imine groups, ammonium groups, azo groups, cyano groups, pyridine groups, pyridinium groups, ether groups, aldehyde groups, ketone groups, carboxylic acid groups,

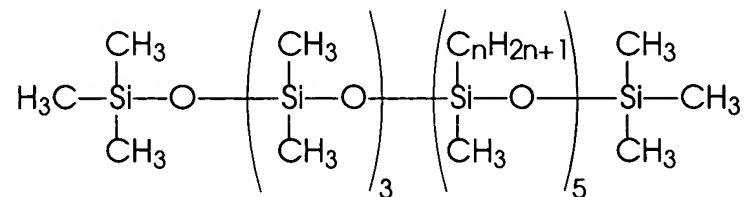
ester groups, amide groups, carbonyl groups, thiocarbonyl groups, sulfate groups, sulfonate groups, sulfide groups, sulfoxide groups, phosphine groups, phosphonium groups, phosphate groups, nitrile groups, mercapto groups, nitro groups, sulfone groups, acyl groups, acid anhydride groups, cyanato groups, isocyanato groups, thiocyanato groups, isothiocyanato groups, oxiran groups, alkyl groups, aryl groups, arylalkyl groups, or alkylaryl groups.

67. A process according to claim 56 wherein at least some of the spacer groups are of the formula

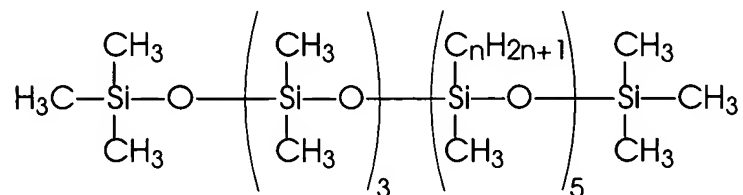


wherein R_7 is an alkylene group, an arylene group, an arylalkylene group, or an alkylarylene group, R' is an alkyl group, an aryl group, an arylalkyl group, or an alkylaryl group, and R_{11} , R_{12} , R_{13} , R_{14} , R_{15} , R_{16} , R_{17} , R_{18} , and R_{19} each, independently of the others, are hydrogen atoms, hydroxy groups, halogen atoms, amine groups, imine groups, ammonium groups, azo groups, cyano groups, pyridine groups, pyridinium groups, ether groups, aldehyde groups, ketone groups, carboxylic acid groups, ester groups, amide groups, carbonyl groups, thiocarbonyl groups, sulfate groups, sulfonate groups, sulfide groups, sulfoxide groups, phosphine groups, phosphonium groups, phosphate groups, nitrile groups, mercapto groups, nitro groups, sulfone groups, acyl groups, acid anhydride groups, cyanato groups, isocyanato groups, thiocyanato groups, isothiocyanato groups, oxiran groups, alkyl groups, aryl groups, arylalkyl groups, or alkylaryl groups.

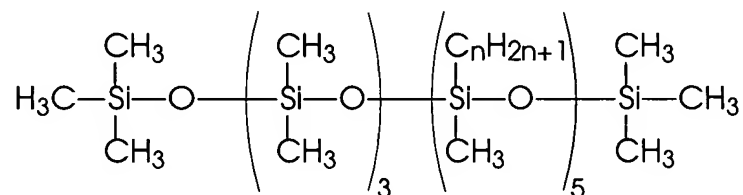
68. A process according to claim 45 wherein the silicone polymer is selected from the group consisting of (a) those of the formula



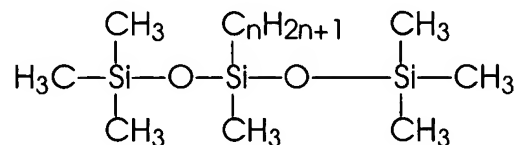
wherein n is from about 20 to about 24, (b) those of the formula



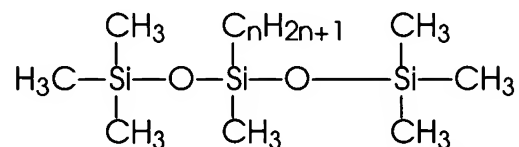
wherein n is from about 24 to about 28, (c) those of the formula



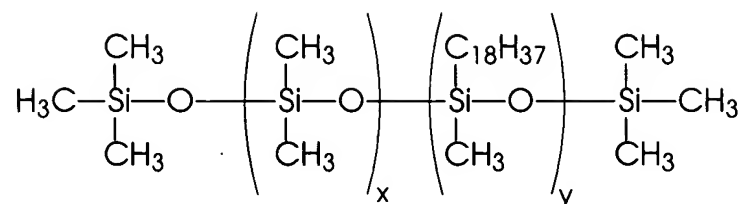
wherein n is 18, (d) those of the formula



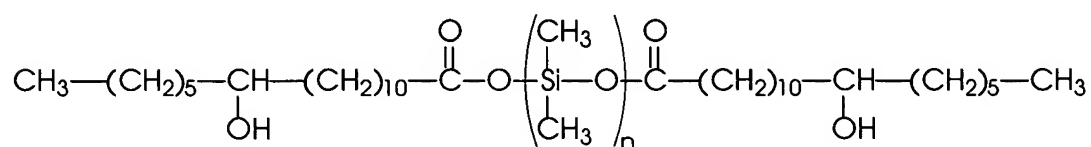
wherein n is from about 20 to about 24, (e) those of the formula



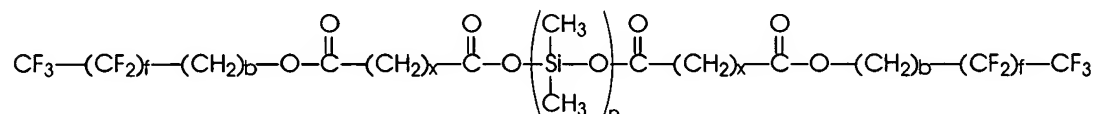
wherein n is from about 24 to about 28, (f) those of the formula



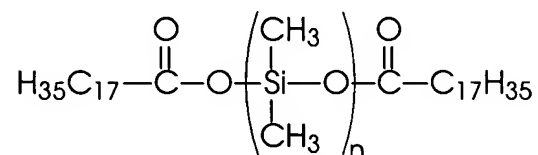
wherein x represents the number of polydimethylsiloxane repeat units and y represents the number of poly(methyl stearyl)siloxane repeat units, (g) those of the formula



wherein n is an integer of from 1 to about 50, (h) those of the formula



wherein n is an integer of from 1 to about 50, b is an integer representing the number of repeat $-\text{CH}_2-$ units, and f is an integer representing the number of repeat $-\text{CF}_2-$ units, (i) those of the formula



wherein n is an integer of from 1 to about 50, and (j) mixtures thereof.

69. A process according to claim 45 wherein the silicone polymer has a number average molecular weight of at least about 400.

70. A process according to claim 45 wherein the silicone polymer has a number average molecular weight of at least about 800.

71. A process according to claim 45 wherein the silicone polymer has a number average molecular weight of at least about 1,000.

72. A process according to claim 45 wherein the silicone polymer has a number average molecular weight of no more than about 40,000.

73. A process according to claim 45 wherein the silicone polymer has a number average molecular weight of no more than about 25,000.

74. A process according to claim 45 wherein the silicone polymer has a number average molecular weight of no more than about 8,000.

75. A process according to claim 45 wherein the intermediate transfer material has a melting point of at least about 30°C.

76. A process according to claim 45 wherein the intermediate transfer material has a melting point of at least about 35°C.

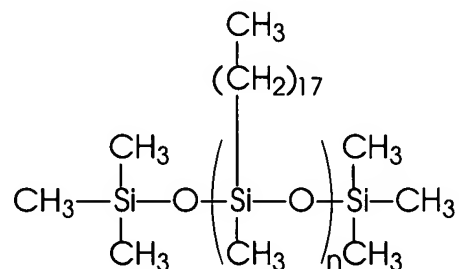
77. A process according to claim 45 wherein the intermediate transfer material has a melting point of at least about 40°C.

78. A process according to claim 45 wherein the intermediate transfer material has a melting point of no more than about 90°C.

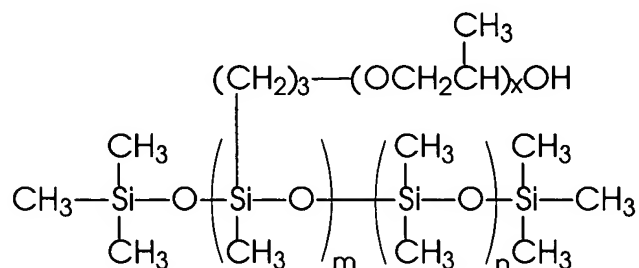
79. A process according to claim 45 wherein the intermediate transfer material has a melting point of no more than about 55°C.

80. A process according to claim 45 wherein the intermediate transfer material has a melting point of no more than about 45°C.

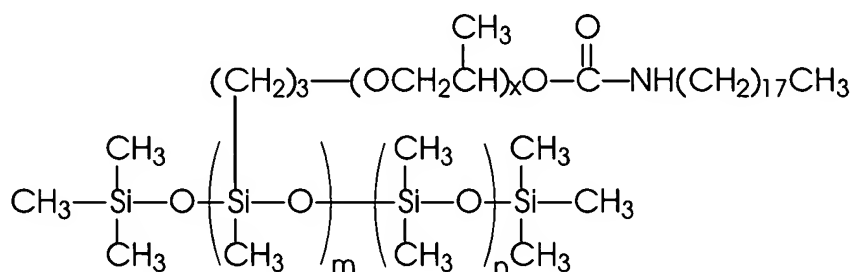
81. A process according to claim 45 wherein the silicone polymer is selected from the group consisting of (a) those of the formula



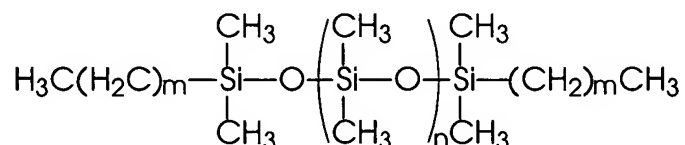
wherein $n = 22-30$; (b) those of the formula



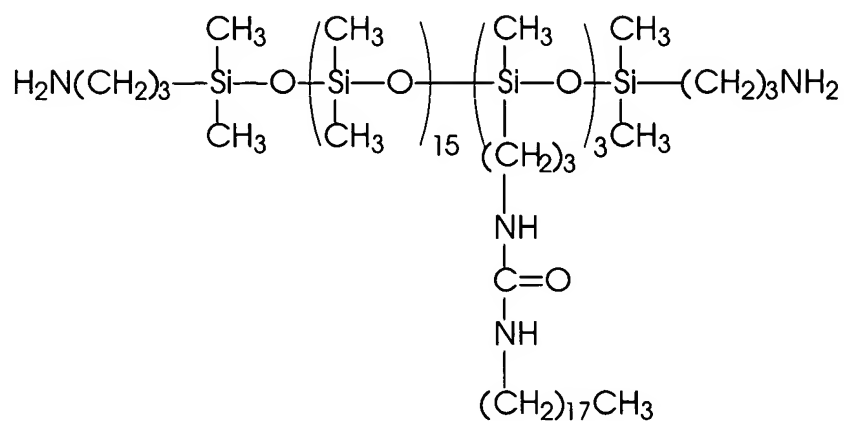
wherein $m = 7-9$, $n = 17-19$, and x has an average value of from about 1.4 to about 1.8; (c) those of the formula



wherein $m = 7-9$, $n = 17-19$, and x has an average value of from about 1.4 to about 1.8; (d) those of the formula

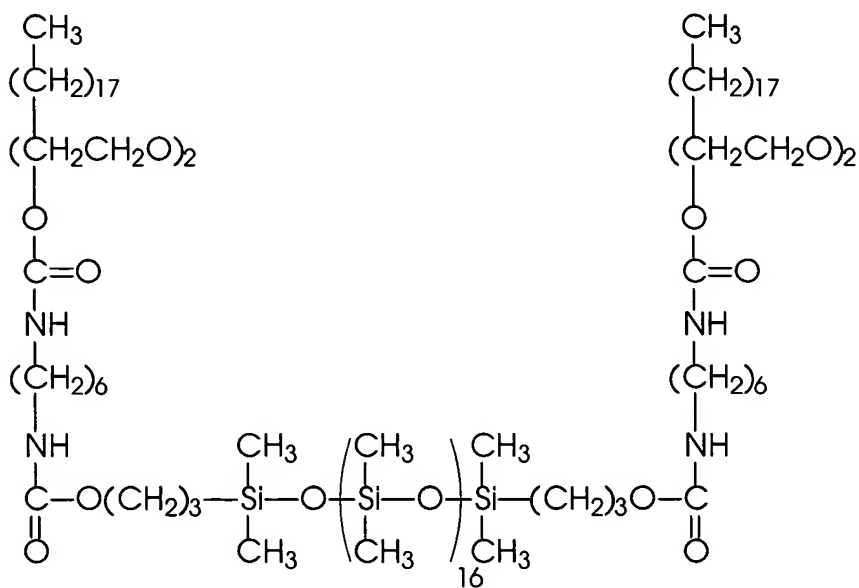


wherein m is from about 17 to about 21 and n = 3-5; (e) those of the formula



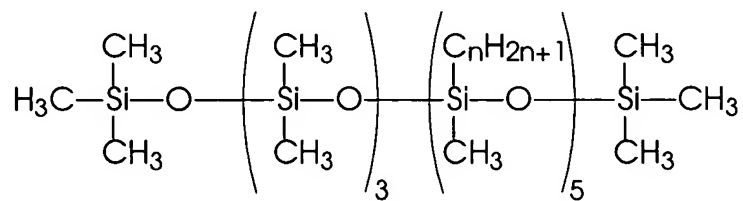
;

(f) those of the formula



;

(g) those of the formula



wherein n is from about 24 to about 28; and (h) mixtures thereof.

82. A process according to claim 45 wherein the intermediate transfer material further comprises at least one reactive material that can be crosslinked by application of ultraviolet radiation, infrared radiation, light in the visible wavelength range, e-beam radiation, X-ray radiation, heat, moisture, additional reactants, or combinations thereof.

83. A process according to claim 82 wherein the reactive material is present in the intermediate transfer material in an amount of at least about 0.1 percent by weight of the intermediate transfer material.

84. A process according to claim 45 wherein the intermediate transfer material further comprises small particles.

85. A process according to claim 84 wherein the small particles are present in the intermediate transfer material in an amount of at least about 0.1 percent by weight.

86. A process according to claim 84 wherein the small particles have an average particle diameter of at least about 0.1 micron.

87. A process according to claim 84 wherein the small particles have an average particle diameter of no more than about 80 microns.

88. A block according to claim 1 wherein the intermediate transfer material further comprises at least one material selected from UV absorbers, UV protectors, overcoat varnishes, viscosity modifiers, intermediate transfer oils, intermediate transfer waxes, antioxidants, plasticizers, tougheners, colorants, or mixtures thereof.

89. A process according to claim 45 wherein the intermediate transfer material further comprises at least one material selected from UV absorbers, UV protectors, overcoat varnishes, viscosity modifiers, intermediate transfer oils, intermediate transfer waxes, antioxidants, plasticizers, tougheners, colorants, or mixtures thereof.

90. A process according to claim 45 wherein transferring the marking material from the intermediate transfer member to the final recording substrate additionally transfers a quantity of the intermediate transfer material to the final recording substrate as an outer layer thereon.

91. A process according to claim 90 wherein transfer of the intermediate transfer material to the final recording substrate occurs only in image areas of the final recording substrate.

92. A process according to claim 90 wherein transfer of the intermediate transfer material to the final recording substrate occurs both in image areas and in nonimage areas of the final recording substrate.

93. A process according to claim 90 wherein transfer of the intermediate transfer material to the final recording substrate enables control of the gloss characteristics of the final recording substrate.

94. A process according to claim 90 wherein transfer of the intermediate transfer material to the final recording substrate enables control of the transparency characteristics of the final recording substrate.